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(SHEET)

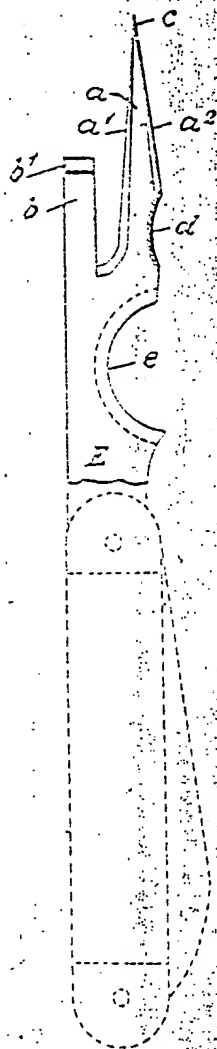


FIG. 1.

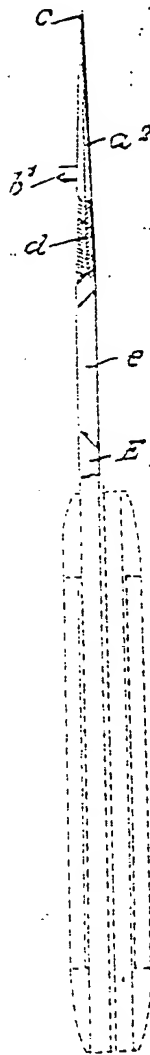


FIG. 2.

[This Drawing is a reproduction of the Original on a reduced scale.]

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accepted

5 Jan. 1901

An Improved Combination Tool.

I. JACOB ALBERT SCHMIDT, of 35, Koelnerstrasse, Solingen, Germany, Manufacturer, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

- 5 This invention has reference to an improved combination tool, adapted primarily to be used as a tin opener, awl and wire cutter, the upper portion of the shank portion of which tool may also be adapted to be used as a cartridge extractor for rifles and as a scraper.

- 10 In order that my invention may be readily understood, reference is made to the accompanying drawing, in which Fig. 1 shows my improved tool in side elevation, and Fig. 2 is an edge view thereof, looking from the right hand side of Fig. 1.

- In carrying my invention into practice, I make my improved combination tool of a single piece of steel, or other suitable metal, the end of which is more or less bifurcated, about as shown. One part, *a*, forms a knife or cutter—having a cutting edge *a'*—for cutting open hermetically sealed tins, and the part *b* (the end of which is preferably bent as at *b'* to increase the bearing surface) acts as the fulcrum, the said knife, *a*, being pushed through the tin until the part *b* rests on the outer surface thereof, the opening or cutting being then accomplished in the ordinary and well known manner.

- 20 In order that the knife, *a*, may be used as an awl or piercer, I form it with a fairly sharp point as at *c*, and also with a cutting edge *a''*.

- For the purpose of cutting wires, I form my improved tool with a cutter or equivalent which is formed by cutting out a segmental part *d*, which part is made V-shaped in section. Each side of this V-shaped cutter is formed with teeth, the arrangement being such that by applying the cut-out part, say under a wire, and using the part *b* as the fulcrum, the wire may be readily cut, the teeth greatly assisting in the cutting and in preventing slipping.

- This improved combination tool may be provided with any suitable handle, or its shank may be combined with a pocket-knife, as indicated in dotted lines, and in this event I prefer to attach my improved tool to the knife handle so that said tool may be "closed" like a knife blade.

- 30 In order to utilize a part of the shank *E*, I cut out a segmental—preferably semi-circular—part *e*, the edge of which is tapered off on one side, as shown in Fig. 2, and thus forms a scraper for cleaning and scraping, for example, electric wires. This part of my improved tool is also adapted to be used as a cartridge extractor or for other purposes.

Having now particularly described and ascertained the nature of my said invention, and in what manner the same is to be performed, I declare that what I claim is:—

- 40 1. An improved combination tool adapted to be used as a "tin opener," awl, [Price 8d.]

Schmidt's Improved Combination Tool.

and wire cutter, said tool being constructed substantially as described and illustrated.

2. An improved combination tool adapted to be used as a "tin opener," awl, wire cutter, and scraper or cartridge extractor, said tool being constructed substantially as described and illustrated.

3. An improved combination tool having a knife, *a*, formed with a point, *c*, and having cutting edges, *a'* and *a''*, a part, *b*, having its end, *b'*, bent at about right angles thereto, a wire cutter, *d*, and a scraper or cartridge extractor, *e*, all for the purposes and substantially as described and illustrated.